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APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/809,044	10/809,044 03/25/2004		Shiro Fujima	NEKU 21.077 (100806-00256			
26304	26304 7590 10/18/2005 EXAMINER						
KATTEN N 575 MADISO		ROSENMAN LLI	MAI, So	MAI, SON LUU			
NEW YORK			ART UNIT	PAPER NUMBER			
·				2827			

DATE MAILED: 10/18/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	,	Applicati	on No.	Applicant(s)				
		10/809,0	44	FUJIMA, SHIRO				
	Office Action Summary	Examine		Art Unit				
		Son L. Ma	ıi	2827				
 Period for	The MAILING DATE of this communicati Reply	ion appears on the	cover sheet with the c	orrespondence ad	idress			
A SHOI WHICH - Extensic after SI - If NO pe - Failure Any rep	RTENED STATUTORY PERIOD FOR EVER IS LONGER, FROM THE MAIL! ons of time may be available under the provisions of 37 K (6) MONTHS from the mailing date of this communication for reply is specified above, the maximum statutor to reply within the set or extended period for reply will, by received by the Office later than three months after the patent term adjustment. See 37 CFR 1.704(b).	ING DATE OF THE CFR 1.136(a). In no evation. y period will apply and we by statute, cause the app	HIS COMMUNICATION ent, however, may a reply be timil expire SIX (6) MONTHS from dication to become ABANDONE	N. nely filed the mailing date of this o D (35 U.S.C. § 133).				
Status								
2a)⊠ T 3)⊡ S	esponsive to communication(s) filed on his action is FINAL . 2b)[ince this application is in condition for a losed in accordance with the practice units.	☐ This action is rallowance except	for formal matters, pro		e merits is			
Disposition of Claims								
5) □ C 6) ⊠ C 7) ⊠ C 8) □ C Application 9) □ Tr 10) □ Tr	claim(s) 1-21 is/are pending in the application of the above claim(s) is/are wellaim(s) is/are allowed. claim(s) 1-4,10-14,20 and 21 is/are rejected to selaim(s) 5-9 and 15-19 is/are objected to elaim(s) are subject to restriction are specification is objected to by the Expect drawing(s) filed on is/are: a)[specificant may not request that any objection eplacement drawing sheet(s) including the	vithdrawn from contected. and/or election recommends caminer. accepted or by to the drawing(s)	equirement. □ objected to by the leading to the leading abeyance. See	e 37 CFR 1.85(a).	FR 1.121(d).			
11)∐ Tł	ne oath or declaration is objected to by	the Examiner. No	ote the attached Office	Action or form P	ГО-152.			
Priority un	der 35 U.S.C. § 119			·				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
•								
2) Notice (3) Informa	of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-tition Disclosure Statement(s) (PTO-1449 or PTO-lo(s)/Mail Date <u>06-09-05</u> .		4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate	O-152)			

DETAILED ACTION

1. The papers filed 07-22-05 have been entered. The objections to claims 1 and 11, and the rejection to claim 21 are withdrawn in view of the amendments to the claims. Accordingly, claims 1-21 are still pending.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1-4, 10-14, 20 and 21 are rejected under 35 U.S.C. 102(b) as being anticipated by U.S. Patent 6,163,488 issued to Tanizaki et al. (hereinafter being referred to as "Tanizaki").

Regarding claims 1 and 11, Tanizaki discloses a redundancy control circuit (figure 12) comprising: a plurality of program elements (anti-fuse 1), in which a defect address indicating a position of a defect is programmed by a dielectric breakdown due to applying of a voltage (signal BST and column 5, lines 11-21); and a voltage control section (which generates signal BST) which applies said voltage to part of a plurality of targeted program elements simultaneously, wherein said plurality of targeted program elements is part of said plurality of program element to be dielectrically broken down correspondingly to said defect address.

Regarding claims 2 and 12, Tanizaki discloses a number of said part of the plurality of targeted program elements, of which number is less than a number of said

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plurality of program elements, is one (when one defective address is programmed), and said voltage control section applies said voltage to each of said plurality of targeted program elements, one by one.

Regarding claims 3 and 13, Tanizaki teaches that the voltage control section applies said voltage (BST) to said plurality of targeted program elements, at a timing of a trigger signal (RAS is active as shown in figure 13).

Regarding claims 4 and 14, Tanizaki shows that the voltage control section commonly applies said voltage (BST) to said plurality of targeted program elements (1), and said voltage is a voltage generated inside a device including said redundancy control circuit (column 9, lines 35-40).

Regarding claims 10 and 20, Tanizaki shows in figure 12, the program element (1) is an anti-fuse.

Regarding claim 21, Tanizaki teaches at last paragraph of column 3 that the program element is a capacitor in a DRAM.

Allowable Subject Matter

- 4. Claims 5-9 and 15-19 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 5. The following is a statement of reasons for the indication of allowable subject matter: The prior art of record fails to teach the further limitation of the voltage control section including: a timing setting section which outputs a timing signal indicating a

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timing for carrying out a dielectric breakdown of each of the plurality of program elements based on a trigger signal.

Response to Arguments

6. Applicant's arguments filed 07-22-05 have been fully considered but they are not persuasive. In the Remarks, on page 10 and 11, the Applicant argued that the applied reference to Tanizaki only shows a single program element 1 in both figures 1 and 4 and Tanizaki does not show a plurality of program elements as claimed in claim 1. On the contrary, as pointing out in the previous Office action, Tanizaki illustrates in figure 12 the plurality of program elements 1 in fuse circuits 10 (Each fuse circuit 10 includes a program element 1). Additionally, the Applicant argued that Tanizaki does not disclose or suggest a voltage control section which applies a voltage to part of a plurality of targeted program elements simultaneously. On the contrary, at column 12, lines 4-10, Tanizaki states the antifuses of fuse circuit 10.1 to 10.n are blown with defective addresses. Thus, Tanizaki teaches all the limitations as claimed in the rejected claims.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Son L. Mai whose telephone number is 571-272-1786. The examiner can normally be reached on 8am to 6pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Nelms can be reached on 571-272-1787. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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10-03-05

Son L. Mai Primary Examiner Art Unit 2827